METHOD, SYSTEM, AND PROGRAM FOR MANAGING DATA ORGANIZATION

ABSTRACT

5   Provided are a method, system, and program for constructing data including reconstructing data organized in a data organization type, such as a Redundant Array of Independent Disks (RAID) organization, for example, which permits data reconstruction. In one embodiment, blocks of data are transferred from a stripe of data stored across storage units, such as disk drives in a RAID array, to a logic engine of a storage

10   processor, bypassing the cache memory of the storage processor. A store queue performs a logic function, such as Exclusive-OR, on each block of data as it is transferred from the disk drives, to reconstruct a block of data from the stripe. The constructed block of data may be subsequently transferred to a disk drive of the RAID array to replace a lost block of data in the stripe of data across the RAID array or to replace an old block of parity

15   data.